

1. Can you please provide property drawings? (roof plan, sectional plans)

- *Provided attached.*

2. Fiberglass insulation technical characteristics ( $\lambda$  or others). Is it accepted to use multiple layers to achieve desirable thermic insulation?

3.4 Attic Insulation:

1. Fiberglass batts 225mm thick; loose laid on the ceiling deck.
2. Note: Do not use exposed extruded polystyrene insulation as it does not meet IBC Residential Fire Code requirements.

- *Fiberglass batt insulation (R-30) may be installed in multiple layers. (say, 3 @ 75mm)*

3. Instead of self-adhered roofing underlayment is it accepted to use plain?

3.5 Underlayment:

1. Primer: Bituthene WP-3000 primer or approved equal. Coverage rate of 500-600 ft<sup>2</sup>/gal.
2. Underlayment: VYCOR ULTRA or approved equal, 22 pounds per 100 sq.ft./1.1 KG per m<sup>2</sup>, self-adhered roofing underlayment, 864 mm wide, 18.4 m<sup>2</sup> size rolls.
  - a. Consistent with good roofing practice, install the membrane such that all laps shed water. Always work from the low point to the high point of the roof.
  - b. Apply the membrane in valleys before the membrane is applied to the eaves. Following placement along the eaves, continue application of the membrane up the roof. The entire roof deck is to receive underlayment.
  - c. Overlap sides 75mm (3 inches) minimum and end laps 150mm (6 inches) minimum.
  - d. Turn up underlayment 75mm (3 inches) minimum at rooftop abutments, rise walls, and chimneys.

- *Contractor may use smooth face modified bitumen sheets (2.0 mm), nailed along top edge at 200mm. Overlap sides 75mm (3 inches) minimum and end laps 150mm (6 inches) minimum.*

4. Although attic insulation is described in Statement of Work, related cost is not included in Proposal Format Line items (p.24). Shall we add it as a separate cost item, a unit price item or include it in any of existing items?

- *All costs shall be included in the contractor's base proposal cost for evaluation.*

5. There is no satellite dish to be removed; instead there is a solar water heater. Shall the cost of removing and reconnecting it be included in our offer?

- *All costs shall be included in the contractor's base proposal cost for evaluation.*
- *Provide CREDIT to the USG for not having to remove satellite dish.*

6. Please confirm that Contractor is not responsible for any damages caused by rain during contract period (until final completion of the project)

6.1 The Contractor shall be responsible for all required materials, equipment and personnel to manage, administer, and supervise the roof project. All workmanship shall be of good quality and performed in a skillful manner as determined of OBO.

- *Contractor is responsible for all damages during construction.*

7. Is it acceptable the usage of stone wool instead of fiberglass for insulation?

- *Yes*

8. Please provide the density and thickness of the insulation.

- *225mm (9-inches) to provide R-Value 38 minimum*

#### 9. Building permit:

Due to safety reasons and diligent work practice, the installation of scaffolds is considered necessary. This consequently means that a proper building permit will be required instead of a small scale permit. The issuing of the permit requires an architectural design, a structural study, extra cost and time.

We would like your opinion on the matter because the time required for the issuing of the building permit does not fall entirely in the contractors hands. Consequently this may result in a delay in the schedule, since the 30 days given for the material procurement (prior to the construction) may not be enough to issue a building permit.

- *We do not see scaffolding as being a necessary requirement. An American contractor would find no challenge in doing this project without the need for scaffolding. If however this would be a necessity scaffolding on any two-sides of the house should be sufficient.*

#### 10. Wooden deck:

After the site visit, we have come to the conclusion that the lumber of the wooden deck needs to be replaced in its entirety, instead of the estimated 20%. The difference in the two assessments means a difference in material cost.

Please respond on whether we should present two different offers, in relation to the quantity of the lumber needed.

- *It has been determined that the estimated 20% replacement, is correct. Two different offers are not required.*

#### 11. Roof insulation:

The insulation to be installed on top of the concrete deck is required to be 225mm thick Fiberglass batts. Please specify the desirable density and weight of the Fiberglass.

- *Density 7.7 kg/m<sup>3</sup> (0.48 lb/f<sup>3</sup>)*

Additionally the cost of the roof insulation replacement is included in the attachment 3 (BREAKDOWN OF PRICE BY DIVISIONS OF SPECIFICATIONS) and not in the attachment 4 (STATEMENT OF WORK). Please specify how it should be included.

- *All costs shall be included in the contractor's base proposal cost for evaluation.*

#### 12. Guaranty Bonds:

Please respond on whether the guaranty bonds issued by TSMEDE (Engineers' and Public Contractors' Pension Fund) are acceptable.

- *Yes, guarantee bonds issued by TSMEDE are acceptable.*

#### 13. Roof plans:

We would like to have a roof plan and a roof section plan to properly calculate the material quantities and a specified number of items to be reinstalled on the roof apart from the chimney (satellite dishes etc) so that we can determine the number of the metal flashings required.

- *Provided attached.*